

Amendments to the Specification:

Please amend page 2, third full paragraph with the following amended paragraph:

A1
As shown in Fig. 6 8, DSL service is typically provided using a separate service line from a subscriber's traditional POT service. A subscriber's telephone **605** is connected via inside wiring **606** to the NID **607**. Of note, a subscriber's POT service line **608b** is separate from the dedicated DSL service line **608a**. At the NID, a subscriber's POT service is routed via the POT service line **608b** to the service central office **609** into the MDF **613**. The subscriber's POT service is then routed to the public switched telephone network ("PSTN") **611**.

Please amend page 8, fifth full paragraph with the following amended paragraph:

A2
From the NID **108**, a copper service line **109** carries the DSL and analog voice traffic to a serving central office **110**. DSL traffic is routed to a data network **112** (e.g. the Internet). A network site ~~413~~ 313 is accessible via the data network **112**. Analog voice traffic is routed to the PSTN **114**.

Please amend page 11, seventh full paragraph with the following amended paragraph:

A3
Preferably, the subscriber may log into a network site ~~413~~ 313 by inserting a computer program product **102** (e.g. a diskette or CD) to initiate an analog dial-up session via the analog modem module **204** of the combination analog/DSL modem **104**. The subscriber may receive the computer program product **102** via a directed mailing or by any wide variety of means.

Please amend the last paragraph on page 11 with the following amended paragraph:

A4
Preferably, upon logging into the network site ~~443~~ 313, the user is prompted to provide certain information such as address, and phone number. However, other information may be requested from the user in accordance with the principles of the present invention.

Please amend page 12, first full paragraph with the following amended paragraph:

A5
In step ~~402~~ 202, a series of parameter tests is performed by the combination analog/DSL modem **104**. As noted above, these parameter tests are handled automatically without the need for manual intervention by the combination analog/DSL modem **104** using algorithms and DSP code known by those of ordinary skill in the art to measure several parameters.

Please amend page 12, second full paragraph with the following amended paragraph:

A6
These measured parameters are then passed automatically to the network service provider operating the network site ~~443~~ 313.

Please amend page 12, third full paragraph with the following amended paragraph:

A7
In step ~~403~~ 203, a suitability for supporting DSL services is automatically determined by the network service provider based on an analysis of the parameters measured by the combination DSL/analog modem **104**.

Please amend page 12, fifth full paragraph with the following amended paragraph:

A8
In step 404b ~~203b~~, if the measured parameters are not within technical limits, then the subscriber is notified that DSL service is not available. The notification may also include the reason why DSL service is not available (e.g. distance too far, bridge tap detected, etc.).

Please amend page 13, first full paragraph with the following amended paragraph:

A9
In step 404a ~~203a~~, if the measured parameters are within technical limits, the subscriber is informed that DSL service is available. The network service provider may then substantially immediately offer DSL service to that subscriber 405, without requiring the dispatch of any personnel (and potentially without the expenditure of any man-hours). A subscriber may be informed by a wide variety of means such as email, or written notification. Preferably, the subscriber is immediately informed via email.

Please amend page 13, second full paragraph with the following amended paragraph:

A10
In step 406 ~~204~~, a subscriber responds positively to the offer of DSL service and submits an order. A subscriber may submit an order by replying to a notification email, filling out a written notification sent to the subscriber, or calling the network service provider. Preferably, the subscriber submits an order via email.

Please amend page 13, third full paragraph with the following amended paragraph:

A11
In step 407 ~~205~~, the network service provider responds to the subscriber's order by provisioning a connection between the subscriber's location **101** and the network service provider's complimentary DSL device **108**, and updates service turn-on and billing information. Preferably, this would occur, e.g., within 24 hours.

Please amend page 13, fourth full paragraph with the following amended paragraph:

A12
In step 408 ~~206~~, the network service provider informs the subscriber that DSL service has been turned on. Notification may be by a wide variety of means such as email or written notification. Preferably, the subscriber is notified via a suitably fast and automatic mechanism, e.g., email perhaps in conjunction with a written notification by regular mail.

Please amend page 13, fifth full paragraph with the following amended paragraph:

A13
In step 409 ~~207~~, the subscriber turns on DSL service by selecting the DSL portion of the combination analog/DSL modem **104**, and substantially immediately gains access to network resources.

Please amend page 14, first full paragraph with the following amended paragraph:

A14
In particular, in step 501 ~~208~~, the subscriber discovers a problem with his/her DSL service, and accordingly notifies the network service provider. A problem may be noted at any time, and by any of a wide variety of symptoms, such as slow performance, error messages, etc.

Please amend page 14, third full paragraph with the following amended paragraph:

A15
In step 502 ~~209~~, the network service provider may respond to the problem report by the subscriber. In order to troubleshoot the DSL service, the subscriber or network service provider may remotely and automatically direct the combination analog/DSL modem **104** into a test mode.

Please amend page 14, fourth full paragraph with the following amended paragraph:

A16
In step 503 ~~240~~, the network site 313 ~~413~~ is logged into for troubleshooting, and the combination analog/DSL modem **104** initiates any one of a series of tests via the analog modem module **204** or DSL modem module **205** to determine the current suitability of the service line. These troubleshooting tests are preferably handled automatically without manual effort. The results of these troubleshooting tests may then be passed automatically to the network service provider for analysis.

Please amend page 14, fifth full paragraph with the following amended paragraph:

A17
In step 504 ~~244~~, the network service provider may analyze the remotely received information and appropriately isolate and potentially resolve the problem without ever having dispatched a repair crew to the subscriber's premises. Diagnosis may be performed by a wide variety of ways without manual effort.